

FIG. 1

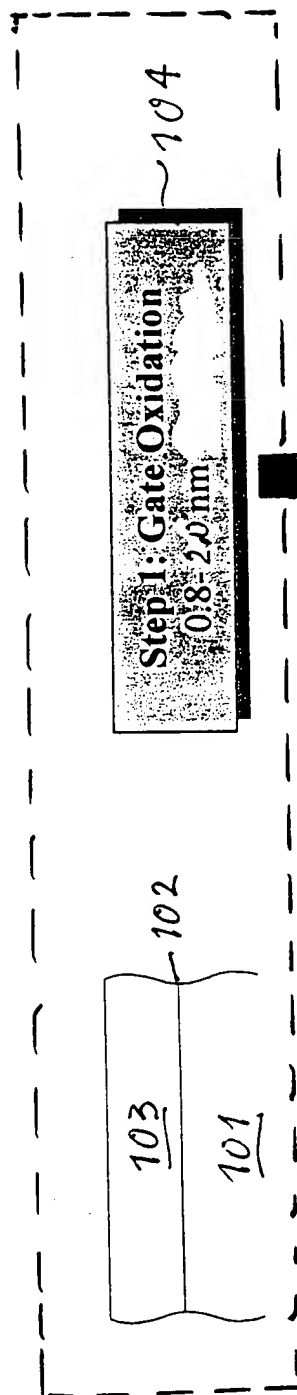


FIG. 2

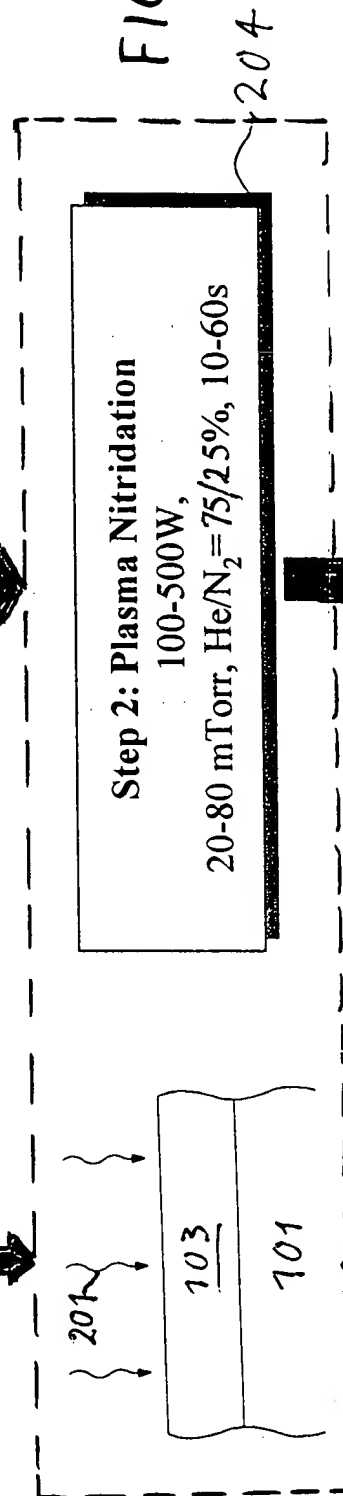
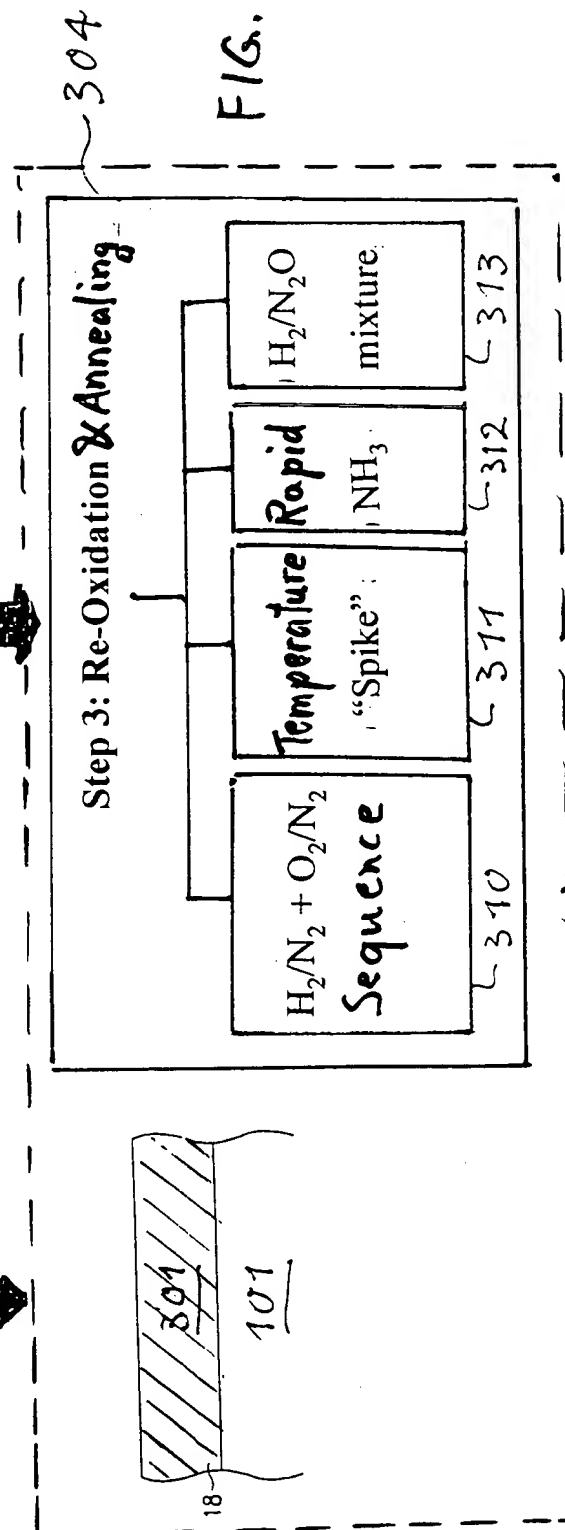


FIG. 3



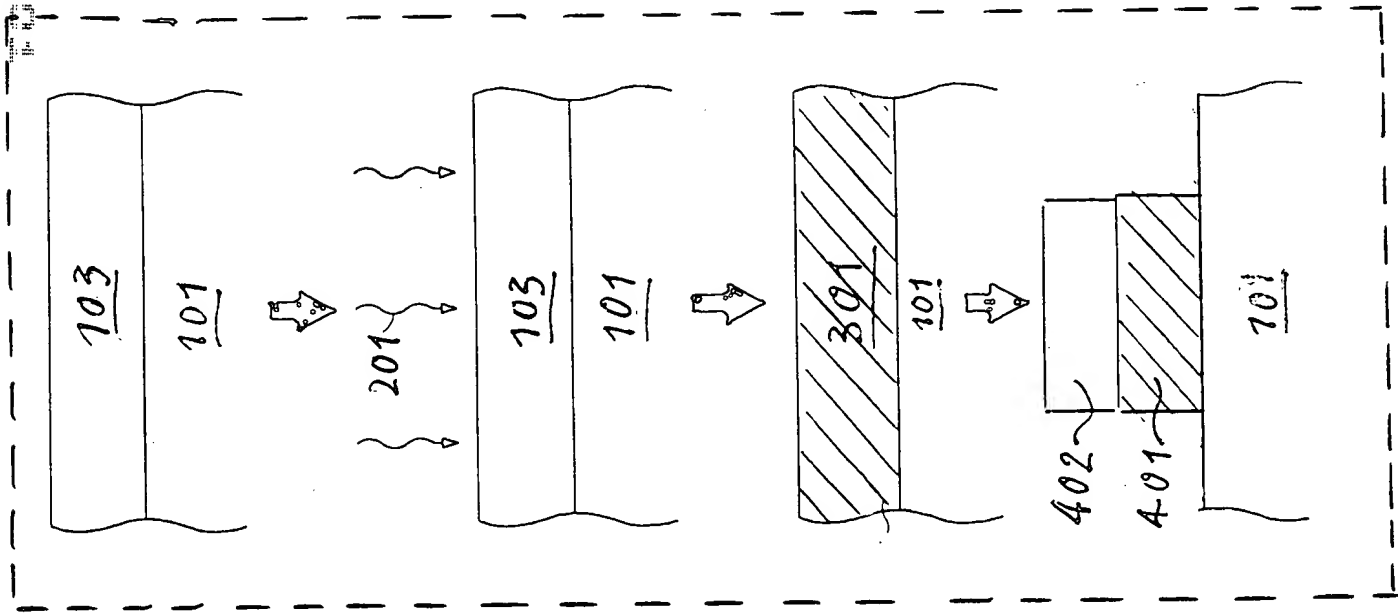


FIG. 4

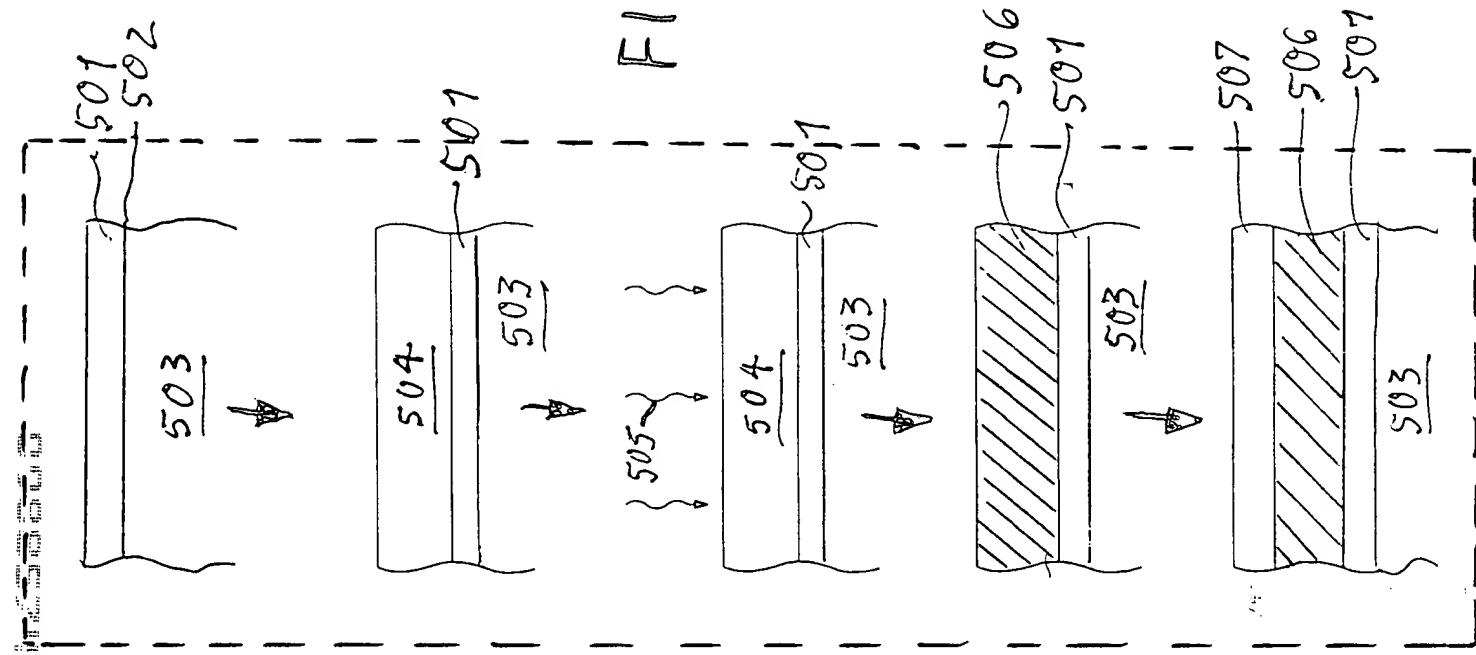


FIG. 5

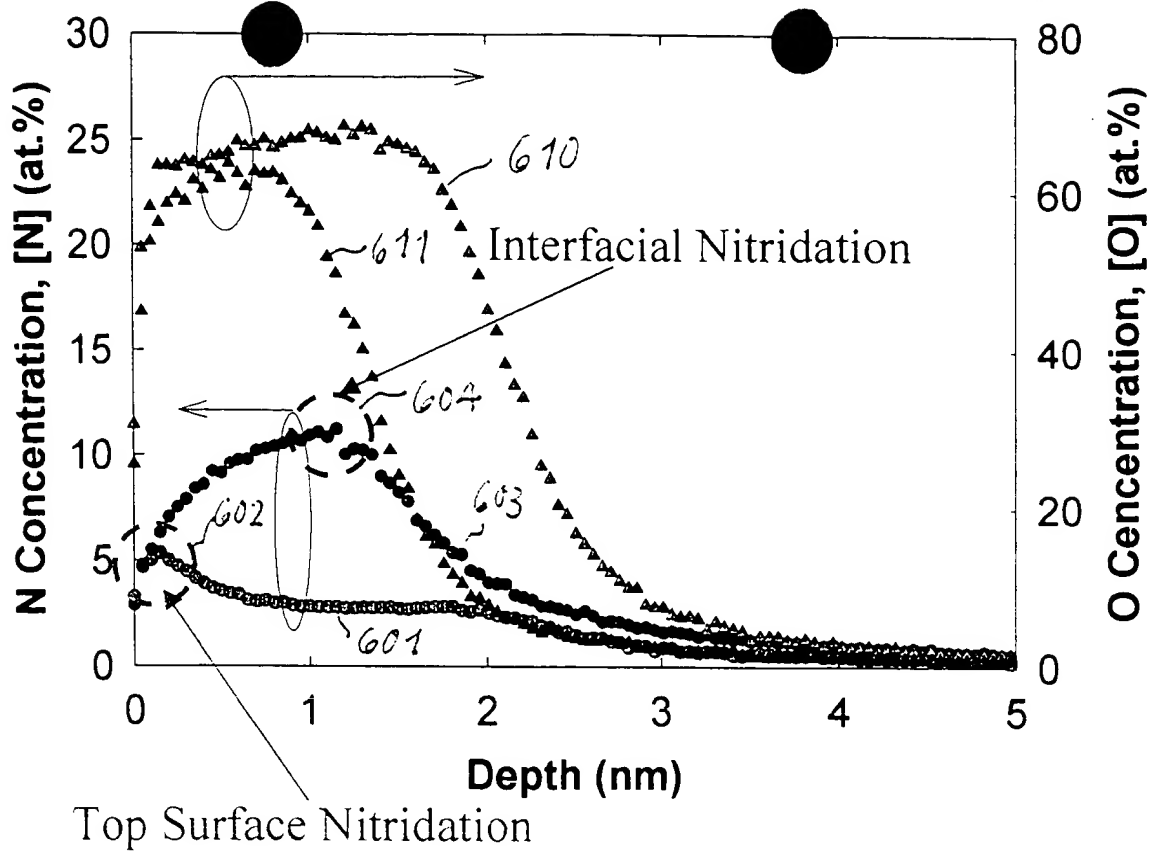


FIG. 6

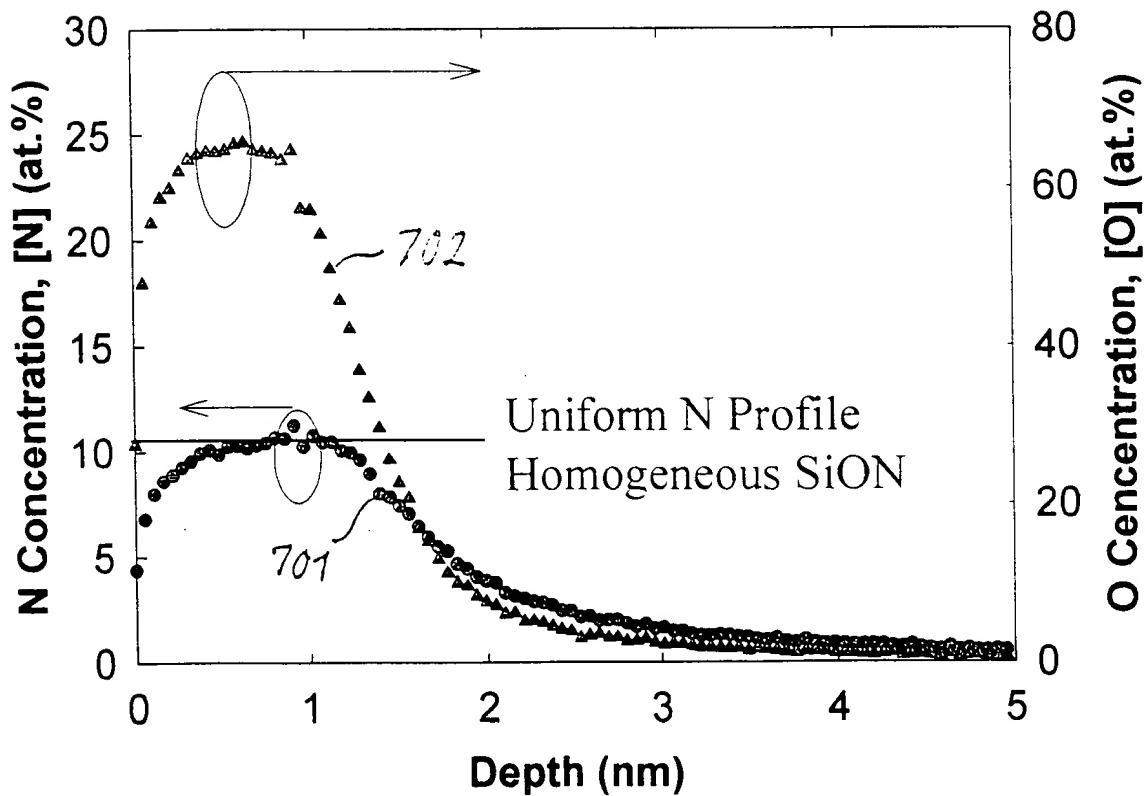


FIG. 7

Temperature:

$temp_1 = 600-1000^{\circ}C$

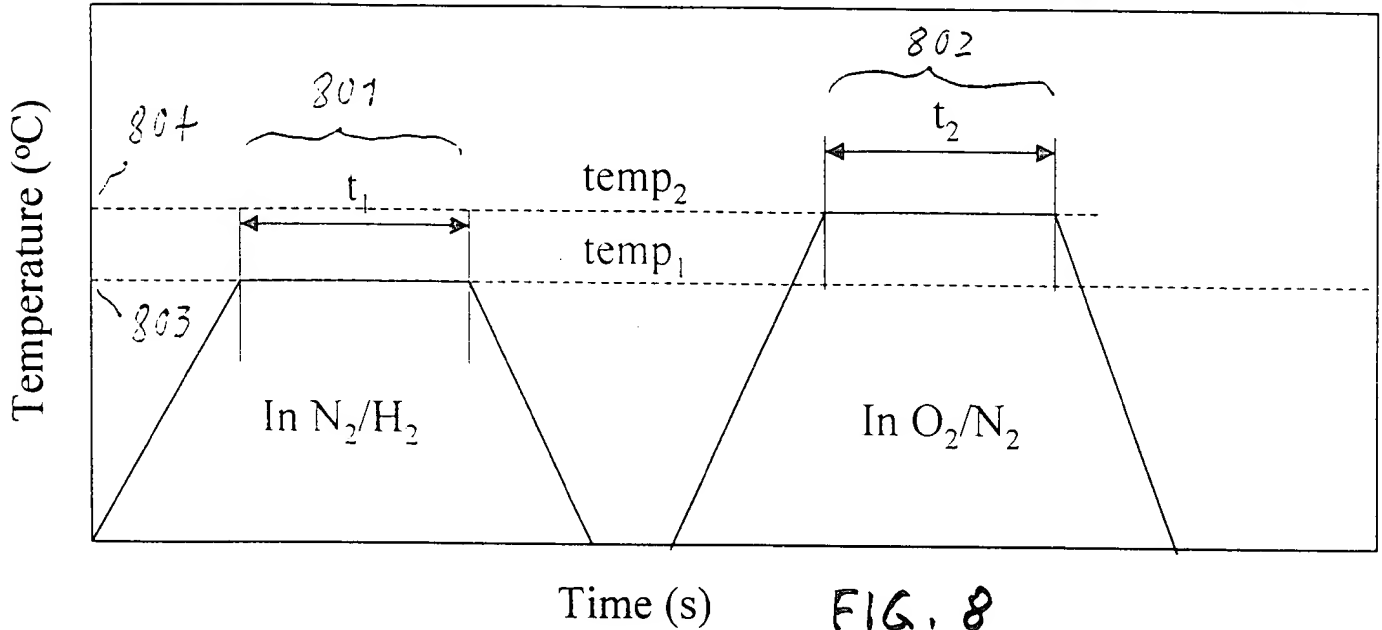
$temp_2 = 800-1000^{\circ}C$

Time:

$t_1 = 5-60s$

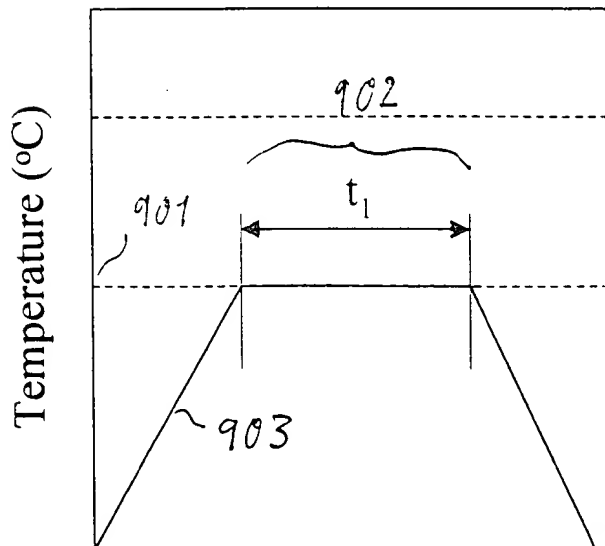
$t_2 = 5-60s$

Rapid Thermal Process

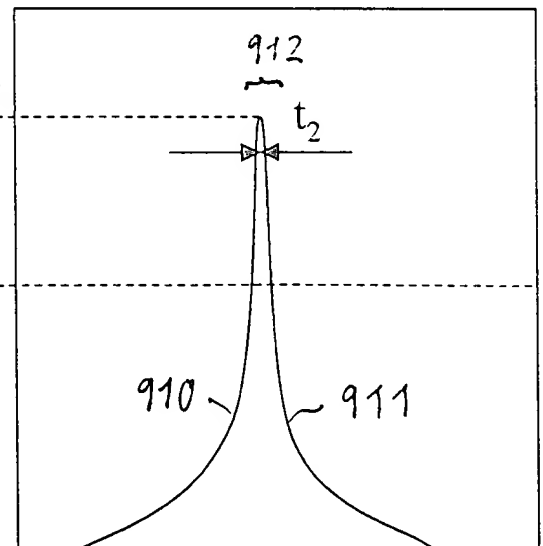


Temperature: $temp_2 > temp_1, \bar{T}_2 > \bar{T}_1$
Time: $t_2 \ll t_1$

Conventional Rapid Thermal Process



"Spike" Process



Temperature: $T_1 = \text{temp}_1 = 600-1000^\circ\text{C}$
 Time: $t_1 = 5-60\text{s}$

Rapid Thermal Process

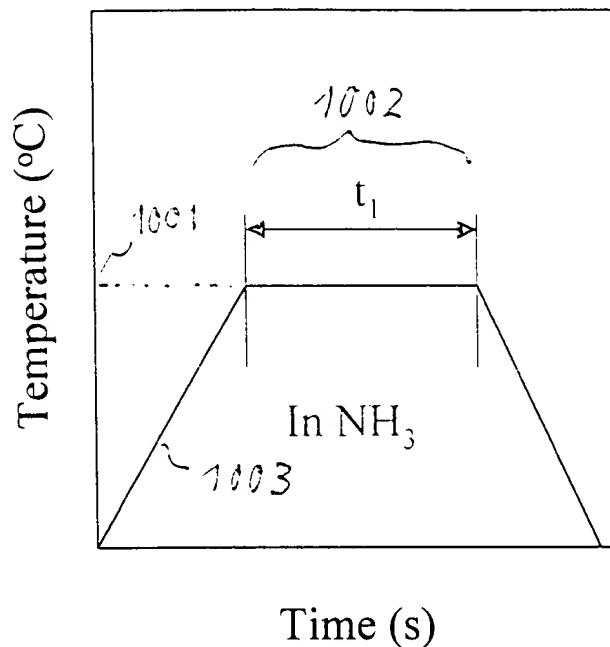


FIG. 10

Temperature: $T_1 = \text{temp}_1 = 800-1050^\circ\text{C}$
 Time: $t_1 = 5-60\text{s}$

Rapid Thermal Process

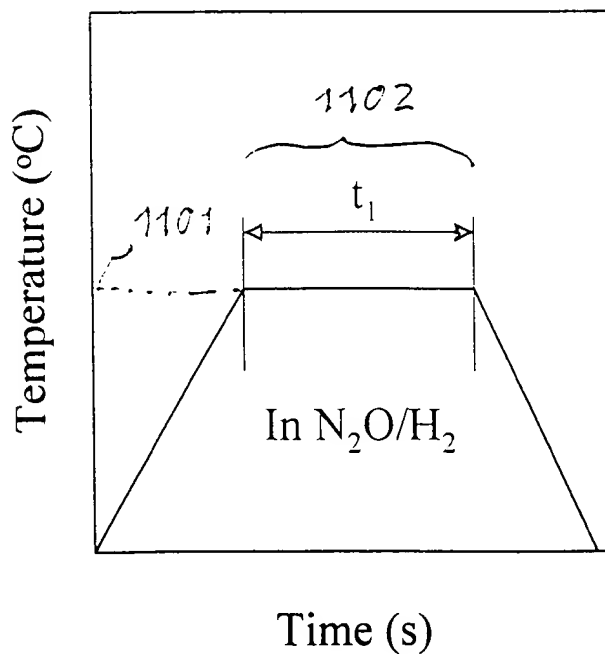


FIG. 11